UCSF newsbreak

NEWS FOR THE UCSF CAMPUS COMMUNITY VOL. 14, NO. 1 JANUARY 8, 1999

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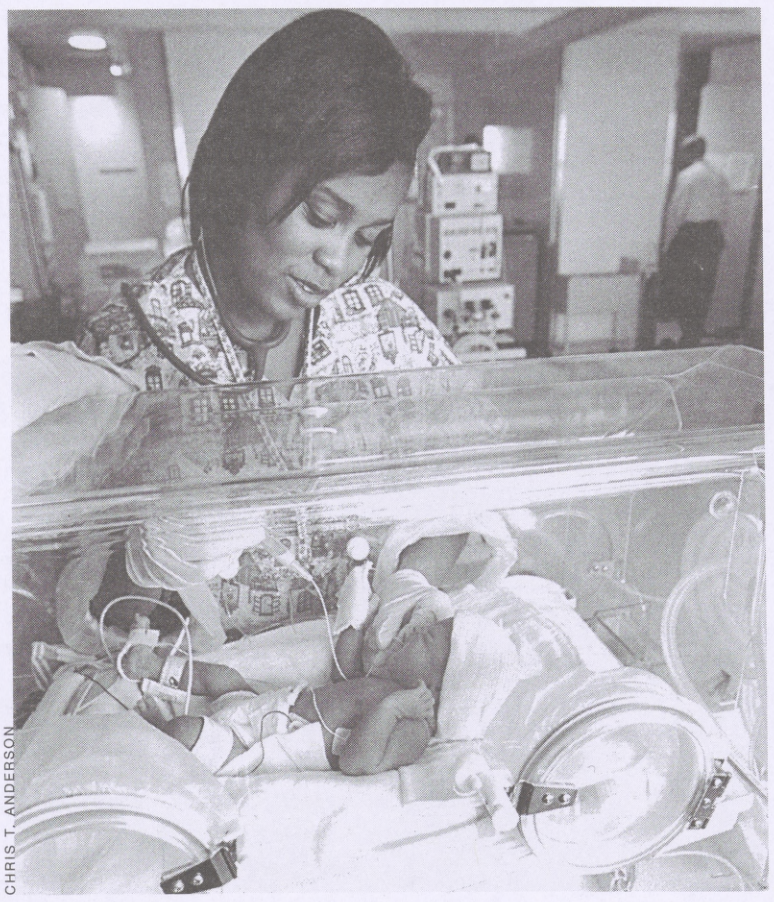

CHRIS T. ANDERSON

Registered nurse Sheila Allen cares for Rupert Dusauzay in the NICU at UCSF Medical Center.

## HIV halts production of healthy T cells

BY CORINNA KAARLELA

A team of AIDS researchers has found the first direct clinical evidence that HIV does more than kill off T cells in the body's immune system. The skillful virus also prevents the production of new, healthy versions of these vital cells.

The scientists — from the Gladstone Institute of Virology and Immunology at UCSF and from UC Berkeley — report their research results of a study involving 21 patients in the January issue of Nature Medicine.

"These studies focus our attention on the ways that HIV infection might stop the production of new T cells," says Joseph M. McCune, senior study investigator and associate professor at the Gladstone Institute. "To treat the disease, not only do we need potent anti-retroviral drugs to stop the virus from spreading and destroying T cells, we may also need additional therapies to ensure that T cell production starts anew."

The findings are significant in understanding the puzzle of T cell turnover in the HIV population, an area that has remained controversial among leading AIDS researchers who have proposed different theories to explain why T cell counts decrease during the course of HIV disease.

Scientists use "turnover" to describe the natural process of T cell death and new cell production that takes place in all individuals but that is altered after HIV infects the body. The precise mechanism that HIV uses to derail the different parts of this process have been unclear, but the end result is a collapse of the immune system that makes the body vulnerable to the opportunistic infections that cause full-blown AIDS.

It had been previously thought by many investigators that HIV decreased the T cell count by causing the destruction of these cells. The new studies indicate that a more important contribution to disease may be the ability to stop T cell production.

(SEE HIV ON PAGE 6)

## Quadruplets born at UCSF

BY JANET BASU

Four babies — two girls and two boys — were born December 10 to a San Francisco couple, Charlotte and Rupert Dusauzay, at the UCSF Medical Center.

To the best recollection of doctors in the neonatal service, these are the first quadruplets born at the medical center, part of UCSF Stanford Health Care, in at least 25 years.

The babies, delivered by cesarean section and weighing less than four pounds each, are all in good condition. Welcomed into the world were: Rupert Gabriel (3 lbs. 10 oz.); Alexandria Alma (3 lbs. 5 oz.); Solomon Omar (2 lbs. 10 oz.); and Danielle Helen (1 lb. 13 oz).

The largest of the infants went home on December 30. Two others were expected to follow soon after, with the smallest slated to remain in the nursery for a few weeks.

The proud parents, Rupert, a Bank of America vice president, and Charlotte, who works at Pacific Bell in San Francisco, had been trying for six years to have a baby before attempting in vitro fertilization, a procedure that was not conducted at UCSF.

"IVF was my only option if I wanted to get pregnant," said Charlotte, who was diagnosed as having blocked fallopian tubes.

Charlotte, 39, spent much of her pregnancy on bed rest to ensure the babies' health. She maintained the pregnancy for 32 weeks, 10 of which were spent hospitalized at UCSF, where she took medications to prevent preterm labor. She picked the delivery date — her mother's birthday — in memory of her late mother.

(SEE BABIES ON PAGE 7)

## UCSF to honor extraordinary individuals

BY ANDY EVANGELISTA

Three members of the campus will be honored January 19 for their extraordinary efforts to promote diversity at UCSF.

Cosmo Fraser, associate professor of medicine, William C. Stevens of Millberry Programs & Services, and Emmitt Jolly, a graduate student in biochemistry and biophysics, have been named winners of this year's Martin Luther King Jr. Award. Chancellor Michael Bishop will present the awards at a ceremony, Tuesday, Jan. 19, 2 to 4 p.m., in Cole Hall. The ceremony kicks off a week-long series of campus events commemorating the life of Dr. King. The theme for this year's celebration is "Rediscovering Precious Values."

Fraser, a scientist and chief of geriatric nephrology at the VA Medical Center, has worked to increase the number of minority students, housestaff and faculty at UCSF. He serves on several campus committees, including the Chancellor's Committee on Diversity, and the Minority Student Recruitment and Retention Committee. For the past 10 summers, his laboratory has been a training ground for minority high school students seeking a career in science or medicine. All of these students have gone on to college, including some now in doctoral programs. He also has served as a mentor to UCSF students and fellows interested in nephrology research.

Stevens, a 23-year UCSF employee who currently manages vendor contracting for Millberry Programs &

(SEE DIVERSITY ON PAGE 6)

## Mission Bay reaches milestone

The 43-acre research campus known as UCSF Mission Bay moved closer to reality in the closing weeks of 1998 with the passing of the litigation challenge period to the certification of the Catellus Development Corporation's Mission Bay environmental impact report.

The lack of legal challenges to the environmental impact report on the site as well as UCSF's own EIR paves the way for Catellus, the primary developer of the entire 303-acre project on the city's eastern waterfront, to transfer title to the property at Mission Bay to UCSF.

"We are delighted with the support we have received from citizen testimony to the necessary approvals from city commissions and the Board of Supervisors," says UCSF Vice Chancellor Bruce Spaulding.

Last November, the UC Board of Regents acquired title to the first five acres of property at Mission Bay where the first building will be constructed at the corner of Seventh and Owens streets. The transfer of an additional 20 acres of the campus site is expected to occur this spring, with the remainder of the land transferred five years thereafter.

UCSF plans to break ground on the biomedical research campus this fall.

Meanwhile, the second administrative draft of the Mission Bay campus master plan and design guidelines, prepared by architects Machado and Silvetti Associates Inc. and Gordon H. Chong & Partners, now is circulating among campus officials. That plan will be shared with the greater campus community and general public for comment in February. Newsbreak will publish meeting dates and locations in future issues.

Features of the master plan include design principles — with an emphasis on connectivity, collegiality and cohesiveness — and overall landscape and building design strategies, as well as a construction phasing summary. The master plan is intended to provide an overall framework to guide the physical development of the UCSF Mission Bay campus, which, given the planned 20-year buildout of the site and the likely involvement of many different architects, is essential to creating a functional, unified and attractive urban space, campus planners say. The master plan also is intended to guide site grading and landscaping, as well as the phased development of infrastructure serving the site.

In approaching the task, planners opted for maintaining an urban street grid in order to integrate the campus into the fabric of the city and to create significant open spaces to foster campus interaction and community. Considerable thought and discussion also was given to parking, space for gardens, lighting, rooftop screening, and pedestrian and bicycle circulation.

UCSF will receive $21.4 million from the recent voter-approved bond measure Proposition 1A to help finance the first building, known as building 24, estimated to cost more than $200 million. The University's financing plan calls for using private gifts, external financing and other revenues to pay for construction.

The first wave of what ultimately will be a campus population of about 9,000 is expected to arrive in 2002. The entire project is expected to cost more than $1 billion by the time it's completed in the next two decades.

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# Palmer to direct pain management clinic

Palmer

Pamela Pierce Palmer, a UCSF assistant professor in residence, department of anesthesia and perioperative medicine, has been appointed director of the Pain Management Clinic (PMC) at UCSF.

An attending physician at the PMC for the past two years, Pierce officially takes the helm effective this month, following a national search.

In her new post, Palmer will oversee all clinical programs in the PMC, which treats patients with complicated and chronic medical, surgical, and neurological pain problems at its offices at 2225 Post Street, near the UCSF/Mount Zion campus. Averaging about 1500 outpatient visits per month, the PMC is expanding to two floors to meet the need of increased patient volume, especially in cancer care.

"Not only do we want to continue the excellence in clinical care, but we want to bridge the gap between basic pain research and clinical treatments," says Palmer, the first physician with a basic science interest to head the PMC.

The PMC employs a variety of doctors and therapists with specialties in anesthesiology, neurology, psychiatry, nursing, pharmacy, physician assistants, psychology, internal medicine, and physical therapy.

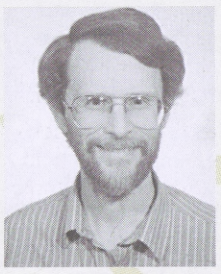
The PMC emphasizes patient education along with modalities that include physical therapy, nerve-blocking techniques with or without fluoroscopy assistance, medication management, biofeedback, relaxation and stress management techniques, individual and/or group psychotherapy, TENS, spinal cord stimulation, and clinical drug trials.

After earning a BS in electrical engineering and working in that field, Palmer realized she "enjoyed people more than machines." Palmer graduated from Stanford University's School of Medicine with an MD degree and a PhD in neuroscience in 1992. She worked as an intern at Santa Clara Valley Medical Center and served her residency in anesthesia at UCSF beginning in 1993. She joined the UCSF faculty in 1996.

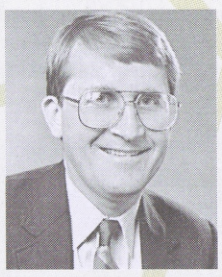
Palmer has received several honors and awards, including a young investigator award from the Foundation for Anesthesia Education and Research in 1996.

In addition to her duties as PMC director, Palmer heads an NIH-funded basic science laboratory which focuses on how the peripheral nervous system is involved in pain and inflammation.

# honors and awards



Bacchetti



Busch

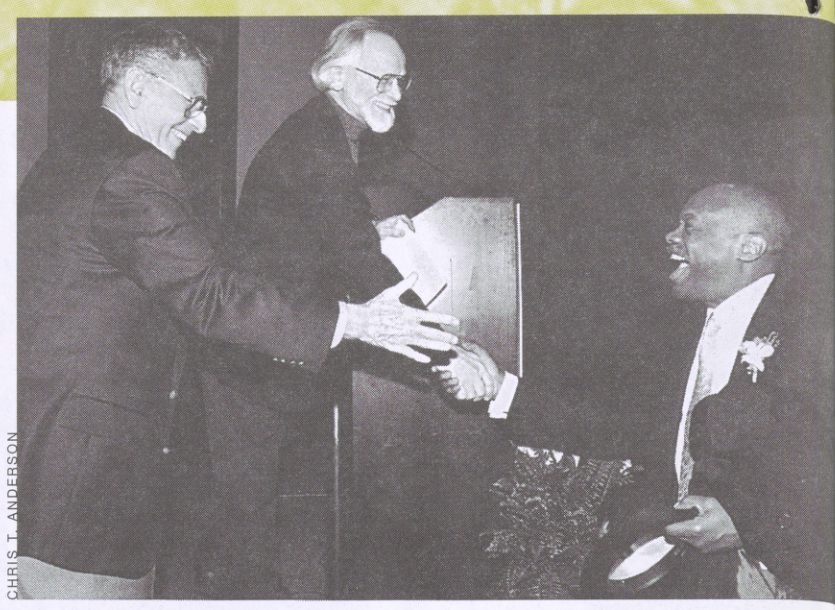
**Peter Bacchetti,** associate adjunct professor, director of biostatistical consulting, department of epidemiology and biostatistics: Received the Mortimer Spiegelman Award, given to one biostatistician each year by the American Public Health Association, for outstanding contributions to health statistics. Bacchetti is recognized for his development and application of new statistical methods for research about HIV and AIDS, along with his extensive collaborative work with other UCSF researchers in a variety of fields.

**Michael Busch,** professor in residence, laboratory medicine: One of two recipients of the 1998 Morten-Grove-Rasmussen Memorial Award, presented at the 51st annual meeting of the American Association of Blood Banks (AABB) in Philadelphia, on Nov. 4.

The award was initiated in 1975 to honor physicians who make important contributions in the field of transfusion medicine.

As vice president for research and scientific services for the Blood Centers of the Pacific, a merger of the Irwin Memorial Blood Centers, San Francisco and the Peninsula Blood Bank, Burlingame, Busch was commended for "establishing the risk of transmission of HIV and other infectious agents by transfusion at various times, as [blood bank] screenings methods have changed."

Busch received his undergraduate degree in pharmacology from UC Santa Barbara, his master's degree in experimental pathology and his MD and PhD from the University of Southern California.



CHRIS T. ANDERSON

Congratulating Chancellor Bishop, center, upon receiving a public service award from the American Society for Cell Biology are, left, Paul Berg, ASCB's chair of public policy, and San Francisco Mayor Willie Brown.

## Bishop receives public service award

**UCSF Chancellor J. Michael Bishop was awarded The American Society for Cell Biology Public Service Award Dec. 13 at the society's annual meeting in San Francisco. The award was presented by Mayor Willie Brown.**

**A key voice on national policy issues related to science education and scientific research, Bishop was cited by the American Society for Cell Biology for his service to the Society, of which he is a former president, to the Joint Steering Committee for Public Policy (JSC), and for his contributions on the national level. A coalition of four basic biomedical research societies representing more than 20,000 researchers in the fields of genetics, cell biology, biochemistry and molecular biology, and biophysics, the JSC was formed in 1990 to bring scientists together to advocate for federal funding for basic biomedical research.**

**Bishop, who has been Chancellor since last July, received the 1989 Nobel Prize in Medicine or Physiology, along with Harold Varmus, a professor of Microbiology and Biochemistry and Biophysics at UCSF and currently the director of the National Institutes of Health, for their discovery that normal cells contain genes that can cause cancer if they malfunction. Their discovery is widely credited with sparking a revolution in cancer research.**

**Bishop was appointed chairman of the National Cancer Advisory Board by President Clinton in February 1998. He is scientific advisor to the Congressional Biomedical Research Caucus and has testified before Congress.**

**At UCSF, Bishop has been a distinguished and popular teacher and adviser and continues to teach as Chancellor. He has twice received the campus' Kaiser Award for Excellence in Teaching and in 1994 was appointed a university professor, the highest honor The University of California can bestow on a professor in recognition of superior scholarship and teaching.**

## Cox wins Krevans dissertation award

**Jeffrey S. Cox, a recent graduate of the doctoral program in biochemistry, has been awarded the Graduate Division's fifth annual Julius R. Krevans Distinguished Dissertation Award for his seminal work contributing to the understanding of the function of the endoplasmic reticulum.**

**The endoplasmic reticulum is a multifunctional intracellular organelle that produces secretory and membrane proteins.**

**Named in honor of Chancellor Emeritus Krevans, who has been a strong advocate for the graduate program at UCSF, the award provides recognition and a cash prize of $2,000 to a recent graduate whose dissertation exemplifies original scholarship that makes an unusually significant contribution to health sciences.**

**Cox was the first to identify an endoplasmic reticulum (ER) signaling pathway which allows communication with and regulation of nuclear genes crucial for ER function and biogenesis.**

**Graduate Division Dean Clifford Attkisson and Chancellor Emeritus Krevans presented the award to Cox at a luncheon ceremony on Dec. 10.**

**Cox, a postdoctoral scholar at the Albert Einstein College of Medicine, was chosen from among several 1996-97 graduates for his dissertation titled "Regulation of Signaling Between the Endoplasmic Reticulum and the Nucleus." Cox was nominated for the award by professors Ira Herskowitz, Reg Kelly, Peter Walter and Keith Yamamoto.**

a new year

# *a new you*

## Boosting energy through different means

CHRIS T. ANDERSON

Now that the holiday hoopla is over, the start of a new year often means it's time to make a renewed commitment to healthy living.

Meet two women who take different approaches to boost their energy levels and achieve well-being.

Acupuncturist Angela Lee, who holds a master's of science in oriental medicine and a BA from UC Santa Barbara, says her recipe for healthy living calls for spending at least five minutes a day practicing the traditional form of Chinese medicine known as Qi Gong (pronounced Chee Gong).

Employed by Millberry Programs & Services to teach what can be described as a conscious state of meditation, Lee says Qi Gong "strengthens and balances one's own energy or Qi" while promoting physical and mental well-being.

"Because the definition of well-being is unique to each individual, so too, is the actual practice or study of Qi Gong," Lee says. "One of the best aspects of Qi Gong is its accessibility to people regardless of age or fitness level. Qi Gong can have a profound effect on one's overall health."

Lee, 35, began learning the healing art from a master some seven years ago because she wanted not only to overcome her own personal ailments, but also to help her professional career as an acupuncturist.

"Every caregiver should practice Qi Gong because it helps you to maintain your energy while you're helping other people."

Acclaimed natural foods chef Meredith McCarty, a former associate editor of East West Journal (now Natural Health magazine) also needed to raise her energy level, especially after being diagnosed with mononucleosis many years ago. As part of her revamped lifestyle, McCarty cut out all meat and dairy products from her diet some 25 years ago. But she doesn't exclude desserts.

After years of taking cooking classes, McCarty has perfected low-fat, no-cholesterol, dairy-free desserts that deliver the delicious satisfying flavors one expects from sweet treats.

"My fascination with health desserts was ignited by the first good old-fashioned apple pie I learned to make in a beginning macrobiotic cooking class back in 1974," McCarty says. "Knowing how to prepare little else in the dessert realm until many cooking classes later, I made it once a week and ate a big slice every night. While I regained both my vibrant energy and my always-inquisitive taste buds, that pie kept me from craving alcohol, cigarettes, fast food, doughnuts and other sugary foods that had helped me create such a poor health condition."

McCarty recently shared and prepared a few of her recipes that use fruit, whole grain flours and natural sweeteners, including Chocolate-Pecan Bourbon Bundt Cake, at her cooking class offered at the Ida & Joseph Friend Cancer Resource Center at the UCSF Cancer Center. "A sense of contributing to the well-being of oneself and others is both comforting and empowering," she says.

An author and instructor who teaches gourmet vegetarian cooking classes across the country, McCarty has written three cookbooks and has produced a video on what she calls "healing cuisine."

"Sharing with people the benefits and the specifics of a plant-based cuisine is my joy and learning to use whole foods in creating luscious desserts is part of a delightful and delicious process."

Lee will teach Qi Gong classes every Monday evening, from 8:15 to 9:30 p.m., through March 29 at the Millberry Union Fitness Center on the Parnassus campus. To enroll or for more information, call Theresa Brand at 476-0350.

For healthful dessert recipes, check out McCarty's new book, "Sweet and Natural: Over 120 Naturally Sweet and Dairy-Free Desserts," which will be available in March.

### Elder care support

UCSF faculty, staff and students can learn how to care for their elders at two caregiver support groups and a drop-in session, all three of which begin Wednesday, Jan. 27.

Jane Mahakian, who holds a doctorate in clinical psychology with an emphasis on geriatrics, leads the groups. She has been providing educational and referral services to the UCSF community since 1992.

The elder care support groups, to meet on Parnassus, run from 11 a.m. to noon and from noon to 1 p.m. The drop-in session will meet in the evenings from 5:30 to 7:30 at the Institute for Health & Aging at Laurel Heights. For more information on these groups or to register for the class, call Mahakian at 502-8673.

CHRIS T. ANDERSON

Angela Lee in action teaching Qi Gong at UCSF.

## A guide to healthy, happy living

**BY LISA CISNEROS**

For Donna Christner-Lile, coping with stress, uncertainty and crises is a way of life.

As a professional counselor, she works to help people deal with mid-life crises or other major life transitions — divorce, death, bankruptcy and retirement for example — that oftentimes require additional support or at the very least an experienced objective listener.

Through lectures and private consultation, Christner-Lile, who holds a BA in human development and a master's degree in counseling psychology from the University of San Francisco, teaches people how to overcome life's obstacles without destroying themselves in the process. The goal is to achieve quality of life, which she describes as "healthy, happy living."

"I enable them to use their own resources and their own abilities and creativity to improve their quality of life. I just sort of open the way for them to see their strengths and skills and how they can turn their life around."

Christner-Lile, 50, speaks from experience.

She gave herself a mid-life overhaul when her own fast-paced, pressure-packed existence working as a mortgage broker not only left her feeling empty and unfulfilled, but also caused undue stress that was simply not worth her high salary. And although her divorce prompted her drive to seek a well-paid career to support her son, Christner-Lile discovered that the benefits of a bigger bank account did not outweigh the risks to her own well-being.

"I did everything wrong that I could have," she recalls. "I worked seven days a week, 14 hours a day. My cholesterol was 375 and my thyroid stopped functioning. I was a wreck until I made a major shift."

For Christner-Lile, that shift entailed keeping her promise to sit down for lunch for about 30 minutes a day. She also practices other positive lifestyle habits, including walking three-and-a-half miles a day, eating a low-fat diet and gardening for relaxation.

"Now I pace myself," she says. "After I went through this transition, I found that I needed to put myself where I was happiest — to go back to my interests and what I enjoyed most."

Christner-Lile says the path to a healthier way of life comes from striking a balance on all levels — spiritual, physical, emotional and financial. "I have discovered how to create a healthier way of challenging myself in order to gain purposeful meaning to my life."

Christner-Lile will be sharing the steps to her own transition to healthy living at a 10-session workshop to be offered at UCSF beginning in February by the UCSF Elder Care Referral Service, part of the Institute for Health & Aging.

"Donna is a gifted professional," says Jane Mahakian, director of the UCSF elder care program. "She is the first person you should consult with for any transition, especially your future plans."

According to Christner-Lile, many of her clients actually look back on a transition as one of the best times of their life. "They may have felt like it was a time of uncertainty and fear, but once they have processed the change and realize who they are and pull from their own strength, they realized that if the transition had not been severe or difficult, they may not have worked so hard to find a better way to live."

For more information on the workshop on life transitions, call the UCSF Elder Care Referral Service at 502-8673.

# year in review

The year 1998 saw the appointments of a new chancellor and vice chancellors for research and medical affairs, voter approval of a major state bond measure to help construct a building at UCSF's Mission Bay campus and the inauguration of centers to study addiction and integrative medicine, to name a few important events. To recap highlights of 1998, we present this photo montage of some of the most provocative stories of the year now considered history.

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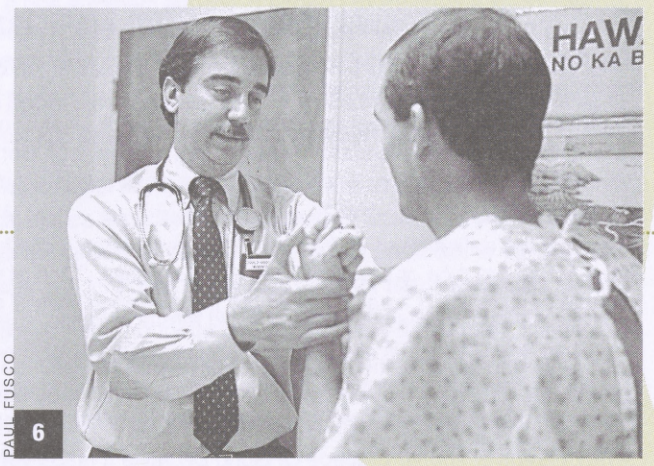
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## 1 january — approving a UC-friendly budget plan

The UC Board of Regents, including ex officio member and State Superintendent of Public Instruction Delaine Eastin pictured center, voted in January to approve a Universitywide budget plan that decreased student fees by 5 percent for undergraduate California residents at a meeting at UCSF's Laurel Heights site. The $2.519 billion UC budget, which also doubled investment in outreach efforts to address inequities in K-13 educational opportunities and restored faculty salaries to competitive levels, was ultimately signed into law by Gov. Pete Wilson on August 21. Eastin won her bid for reelection as state schools chief in November.

## 2 february — choosing a leader for the next century

Nobel laureate J. Michael Bishop, left, one of the world's foremost medical researchers and a leading advocate for science education and increased public investment in scientific research, was named UCSF's eighth chancellor last February. Acting on a recommendation of UC President Richard C. Atkinson, UC Regents approved the appointment of Bishop who became UCSF's first non-practicing physician to take the helm in nearly 30 years. He succeeded Chancellor Haile Debas, right, who stepped into the role for a little more than a year while also serving as dean of the School of Medicine.

## 3 march — developing a new campus at Mission Bay

In March, the UC Board of Regents approved the collaboration of the Bay Area Life Sciences Association and UCSF which formed a limited liability company to help develop the 43-acre biomedical research campus. Also at its meeting on March 20, Regents finalized the appointment of Zach Hall as vice chancellor for research. Hall oversees UCSF's $350 million research enterprise and has led the campus as it embarks on major medical research initiatives at Mission Bay and existing campus locations. Hall, a national leader in medical research and a renowned neuroscientist, first came to UCSF in 1976 and left in 1994 to become director of the National Institute of Neurological Disorders and Stroke of the National Institutes of Health. He returned to UCSF in January.

## 4 april — cultivating leaders from within

The Faculty Women's Leadership Subcommittee of the Chancellor's Advisory Committee on the Status of Women hosted an April 1 panel discussion featuring campus role models who spoke about their paths to leadership at UCSF. Mary Anne Koda-Kimble, who spoke at that event, was named dean of the School of Pharmacy September 1. A national leader in pharmacy education and clinical practice, Koda-Kimble is herself a product of UCSF — she was one of the top students in her class to earn a doctor of pharmacy degree in 1969. She is described as a visionary by her colleagues on campus.

## 5 may — reaching out to the community

An example of UCSF's public service efforts, Marc Hellerstein, associate professor of medicine, right, supervises UCSF medical students, from left, Michael Fogli, Michael Dyman and Maya Strange in providing free diabetes testing and blood pressure checks to passers-by at the Cinco de Mayo fair on May 3 at San Francisco's Civic Center Plaza. UCSF's team of health care professionals, coordinated by UCSF Public Service Programs, also included dental students and Nelson Artiga-Diaz, director of the UCSF Family Dental Center at SFGHMC, as well as nursing students, staff and faculty.

## 6 june — testing marijuana as a therapy

A group of San Francisco physician-scientists began a clinical trial on the effects of marijuana in patients with HIV infection funded by a $1 million grant from the National Institutes of Health. The two-year study is a combined project of UCSF and the Community Consortium, a Bay Area association of 200 health care providers who care for the majority of HIV/AIDS patients in the region. "Our main goal is to find out what is safe for HIV/AIDS patients. We know many patients use marijuana to relieve nausea and loss of appetite brought on by the disease and its treatments, but we don't know how THC — the active ingredient in marijuana — interacts with HIV drug therapies," said Donald Abrams, UCSF professor of medicine at the UCSF AIDS Program at SFGHMC and principal investigator of the trial.

CHRIS T. ANDERSON

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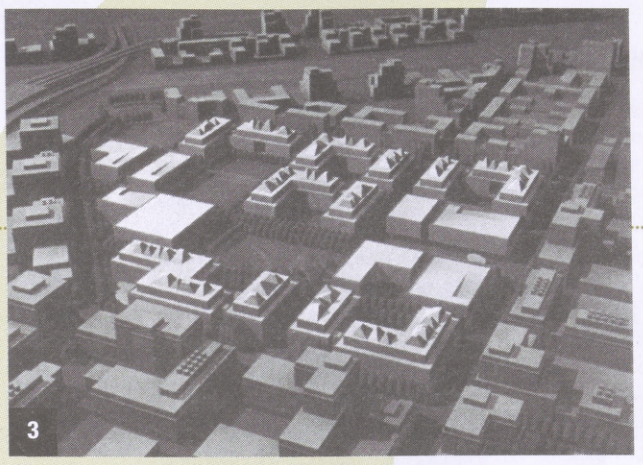

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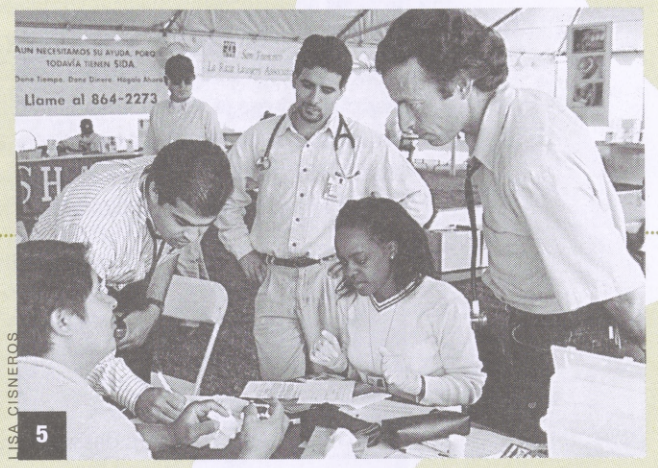


LISA CISNEROS

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CHRIS T. ANDERSON

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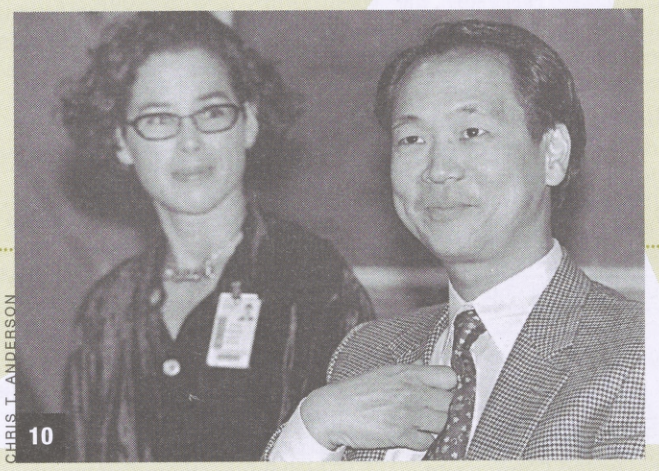

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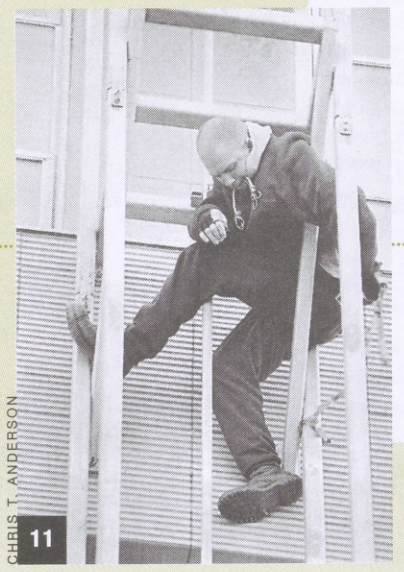

CHRIS T. ANDERSON

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CHRIS T. ANDERSON

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**7 *july*** **breaking new ground in cancer care**

Scientists, patients and city leaders, including Mayor Willie Brown, celebrated the July 7 groundbreaking of the clinical cancer center at UCSF/Mount Zion Medical Center, part of UCSF Stanford Health Care. "The new building will help to develop a structure that encourages dialogue between lab and clinical scientists and therefore encourages translation of lab research into new therapies," said Frank McCormick, director of the UCSF Cancer Center and Cancer Research Institute. McCormick is pictured right, with Chancellor Bishop at the groundbreaking ceremony.

**8 *august*** **returning to teaching and research**

Jane Norbeck announced August 26 that she will step down as dean of the School of Nursing, a post she has held since 1989, at the end of this academic year. Widely recognized for her research on the concept of social support systems, particularly for pregnant women and single parents, Norbeck plans to return to teaching and research in the school, where she is a professor in the department of Community Health Systems. Norbeck, who joined the UCSF faculty in 1975, currently serves as co-chair of the Chancellor's Committee on Diversity. In her 10 years as dean, the school has maintained its rank as one of the top graduate nursing programs in the country.

**9 *september*** **inaugurating integrative medicine**

UCSF inaugurated the Osher Center for Integrative Medicine at a September 25 forum. Center faculty will search for the most effective treatments for patients by combining non-traditional and traditional approaches that address all aspects of health and wellness — biological, psychological, social and spiritual. The center also will bring to students and health professionals a new model of relationship-centered medicine, which recognizes that the patient and practitioner together promote health and address disease.

**10 *october*** **embracing equality and diversity**

Lowell Tong, interim chief of psychiatry at UCSF/Mount Zion, right, spoke about being gay during an October 12 UCSF forum marking National Coming Out Day. Sponsored by the Center for Gender Equity, renamed last year from the UCSF Women's Resource Center, the forum featured Tong, Lee Wolfer, a fourth-year medical student, left, and Andrea Gonzalez, a data manager for the AIDS clinical trail database at SFGHMC. All three said that coming out is a continual process. Also that month, more than 100 UCSF students, faculty and staff gathered in Saunders Court on October 22 in support of affirmative action programs.

**11 *november*** **protesting against animal research**

Animal rights activist Michael Kennedy camped for six days perched on the Medical Sciences building in November at UCSF's Parnassus campus to protest the UCSF study conducted with squirrel monkeys to determine how the brain analyzes sounds after a partial hearing loss. The research was the focus of a couple of meetings of the San Francisco Board of Supervisors, which on November 23 voted in favor of a resolution calling for the humane treatment of primates involved in the study. UCSF mounted a vigorous defense of its studies with animals, providing supervisors with testimony from faculty, postdocs, staff, patients and community members and business leaders. The University already follows strict federal government guidelines for animal research.

**12 *december*** **celebrating the birth of quadruplets**

Weighing 2 pounds, 1 ounce, Solomon Dusauzay was one of four babies born last month to San Francisco couple Charlotte and Rupert Dusauzay at the UCSF Medical Center, part of UCSF Stanford Health Care, which marked its first year of operation as a merged organization in November. The babies, delivered by cesarean section, were the first quadruplets born at UCSF in some 25 years. For the full story, see page 1.

# research roundup

## Study looks at nursing home care

UCSF researchers will study end-of-life care to find new ways to improve care for nursing home residents who are dying, says Jeanie Kayser-Jones, UCSF professor of physiological nursing and medical anthropology.

The National Institutes of Health is financing the $2.1 million five-year study with the goal to better understand the range of clinical and environmental factors that shape the care of dying nursing home residents. Ultimately, the study could lead to better management of symptoms, such as pain and improved care for these patients, Kayser-Jones says.

The research will focus on patients who are dying or expected to die within six months to one year. Specifically, researchers will identify and analyze the social, cultural, environmental and clinical factors that influence the care of terminally ill nursing home residents. The residents' and health care providers' beliefs about death and dying and the way relationships between nursing home staff and residents influence care will be investigated.

## Researchers identify key asthma molecules

Researchers at UCSF have identified two molecules that change cells to cause asthma — a finding that paves the way for developing more effective drugs for treatment.

The molecules connect with a specific cell receptor to alter cellular structure and set up the mechanism of disease.

"Now we can direct further research into how to manipulate these molecules at the outset to change the outcome of the disease," says David B. Corry, an assistant professor of medicine with the UCSF Lung Biology Center at San Francisco General Hospital Medical Center.

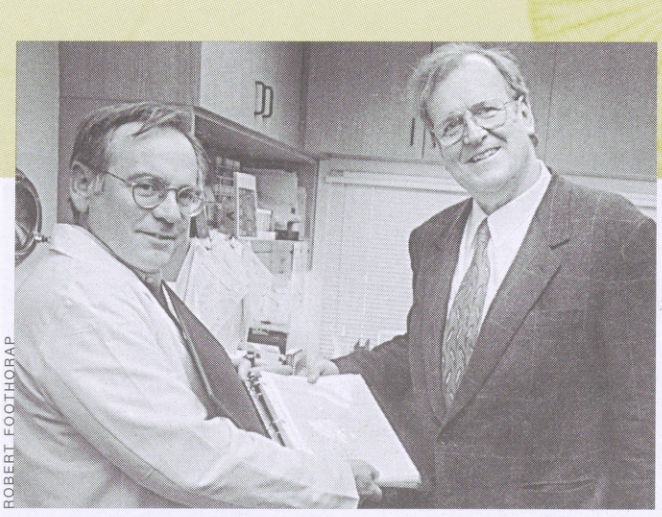
Scientists nationwide have long focused on trying to understand asthma at the cellular level, and the finding is viewed as a significant breakthrough.

Asthma affects nearly 12.5 million Americans, including 4.8 million children, and the incidence has been rising dramatically in recent years.

The UCSF researchers conducted the study in a mouse model that mimics human asthma.

"Current therapies treat only the symptoms of asthma, so with our new understanding we are excited about the possibilities of moving toward treatments that control the disease from its point of origin," says Gabriele Grünig, postdoctoral visiting scientist.

It is hoped that new treatments also will be able to avoid some of the side effects associated with current therapies, such as water retention in the tissues or a generally depressed immune system.



ROBERT FOOTHORAP

## Lab visited by namesake

**UC Regent Peter Preuss, who is also founder and president of The Preuss Foundation Inc., recently visited the UCSF brain tumor research laboratory established by the group. Preuss, right, is pictured with laboratory director Mark Israel, the Kathleen M. Plant Distinguished Professor of Neurosurgery. The Preuss Laboratory for Molecular Neuro-oncology was established in 1989 to focus on molecular biological strategies to understand how brain tumors evolve and to develop new treatments for brain tumor patients. Among recent advances by the laboratory are the development of a prognostic marker for medulloblastoma (a type of brain tumor in which cancer cells begin to grow in the tissues of the brain), a new strategy for tailoring radiation therapy for brain tumor patients, and the identification of inhibitors that appear to play a critical role in the growth of brain tumors.**

(DIVERSITY FROM PAGE 1)

Services, will be honored for his many behind-the-scenes efforts, including volunteer work with various humanitarian groups and advising many UCSF staff and students on career and personal matters. He has been active with the Ethiopian Refugee Project, helping identify job opportunities for Ethiopians settling in the Bay Area, and the Family Alternative Service, providing mentors for youth in foster care. In his current position and as a member of the Business Affirmative Action Committee, he has helped promote opportunities for minority businesses at UCSF.

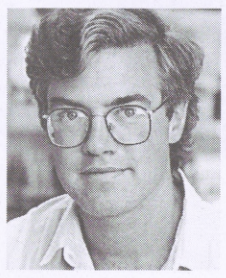
Jolly, a third-year graduate student, has been a leader in attracting young minorities to careers in science. A past president of the UCSF Black Student Health Alliance, Jolly has been a guest speaker at numerous community schools to encourage young people to aim high in their academic pursuits, appeared before national groups to discuss his experiences as a graduate student, and has personally recruited students to UCSF. A former participant in a UCSF summer research program for minority undergraduates, he serves as a training assistant and mentor for the program. Jolly also co-founded the Student Literature Redistribution Project, which collects used scientific journals for disadvantaged and minority undergraduate institutions.

Another highlight of the campus' Martin Luther King Jr. commemoration week, will be the keynote address by Dr. J. Alfred Smith Sr., pastor of the Allen Temple Baptist Church in Oakland, on Wednesday, Jan. 20, noon-1 p.m., Cole Hall.

Smith has been named by Ebony Magazine as one of the 100 most influential African-Americans and one of the country's 15 greatest African-American preachers. He has traveled extensively to speak at universities, churches and seminaries worldwide. In 1989, he addressed the United Nations on apartheid in South Africa and the anti-apartheid efforts of African-American churches. In 1994, the Oakland Tribune named Dr. Smith as Outstanding Citizen of the Year. He is the author of 16 books, and he has earned more than 125 honors and awards, including those from the US Congress, Stanford University, the Martin Luther King Jr. International Chapel of Morehouse College, and the National Council of Negro Women. His talk will be telecast to Mission Center, SFGHMC, UCSF/Mount Zion, VA Medical Center, and Laurel Heights.

For other MLK Weeks events, see the calendar on page 8.

(HIV FROM PAGE 1)



McCune

Using a new diagnostic tool, the research team determined the rates of production of two types of T cells — CD4 and CD8 — that are major players in the immune system and prime targets of HIV.

The technique was developed by McCune and Marc Hellerstein, the lead investigator of the study and an associate professor at UCSF and at UC Berkeley.

"We found that the virus had an impact on both the rate of T-cell production and the rate of their destruction," Hellerstein says. "But it was the body's ability to produce new cells that was most important in determining T-cell counts."

Study participants included both men and women, and all were patients in the General Clinical Research Center at San Francisco General Hospital Medical Center. They represented three groups: HIV-negative and healthy, HIV-positive who had not undergone anti-HIV drug treatment, and HIV-positive who had completed a 12-week course of effective treatment with the potent antiretroviral drugs known as protease inhibitors after previously being untreated.

Major findings include:

For the first time, the daily rate of production of normal CD4 and CD8 T cells was directly measured in HIV-negative adults.

In untreated HIV-positive patients, CD4 and CD8 cells were being destroyed at a more rapid pace than in HIV-negative subjects and the body did not compensate by increasing the rate of production above the normal rate. Accordingly, the T-cell count decreased.

In HIV-positive patients whose virus was suppressed by potent therapy and whose T-cell counts increased, the rate of new cell production increased dramatically. The rise in new cell production was responsible for the increase in T-cell counts.

Crucial to the study was the new diagnostic tool that makes it possible to mark any human cell with a nontoxic label at the time of cell division and then to use the label to directly measure the numbers of new cells produced.

In this study, the label was incorporated in a specially formulated glucose solution that was administered to patients intravenously. After passing through complex biochemical pathways, the label attaches itself to the DNA of dividing cells.

The researchers took periodic blood samples from patients during the infusion and during the next two- to three-weeks. With the label serving as a marker for newly divided cells, they analyzed samples by using a cell sorter to isolate pure populations of circulating T cells and a mass spectrometer to measure the number of labeled cells.

Because the labeling was carried out in living people, the results serve as the first direct clinical evidence of cell production in the human bloodstream. In the past, cell generation could not be directly measured in clinical studies because techniques involved radioactive or toxic chemicals unsuitable for human consumption.

Based on the study findings and previous work, McCune says it appears that HIV may disrupt T-cell production in two key ways. First, virus infection may short-circuit the division of memory T cells, whose function is to ward off foreign invaders that the body encountered in earlier years. Without a continuous supply of these cells, the immune system doesn't "remember" that it can successfully fight off previous enemies, and a person becomes susceptible to a variety of infections.

Second, virus infection may prevent the production of new T cells from the bone marrow and the thymus, the major organs of T-cell production.

In either case, the immune system would collapse and the HIV-infected patient would become immunodeficient, McCune explains.

"It remains unclear whether all HIV-infected patients will be able to increase T-cell production and restore their immune systems after treatment. For those who cannot, additional therapies may be required," he says.

# campus notes

## Nominations due for women award

Nominations are due at 5 p.m. on Monday, Jan. 11 for the Chancellor's Award for the Advancement of Women. This annual award recognizes one academic/faculty member, one staff member, and one student, resident, or postdoc for their contributions to the advancement of women at UCSF. Nomination forms are available in the Chancellor's Office at S 126, or on the Chancellor's Office website, under Chancellor's Awards, at www.chancellor.ucsf.edu. Please call 476-4223 if you have any questions.

## Estes to be honored

The faculty and staff of the Institute for Health & Aging will honor Carroll L. Estes, founder and first director, on Tuesday, Jan. 26 at the Alumni House, 745 Parnassus, from 3 to 6 p.m. UCSF faculty and staff are invited to celebrate Estes' 19 years of service as director and her departure from that position. Estes will continue to be on UCSF faculty. RSVP to Pat Henderson at 502-5200.

## HR to open service center on Feb. 16

The UCSF Human Resources department has announced the formation of its new client services center to open Feb. 16.

The result of almost a year of planning based on feedback from employees and managers campuswide, the center will provide each campus department with a dedicated team of HR professionals who are cross-trained in all aspects of human resources. Service and information for HR activities — recruitment, classification, extended leaves, performance coaching and HR management — will be available from these new teams. Teams will be introduced to departments over the next two months.

## Study directors sought

University of California faculty are invited to apply for directorship positions in the UC's Education Abroad Program. Two-year appointments for the academic years Jan. 1, 2000 through Dec. 31, 2001 will be made for Australia (Melbourne) and Brazil (Rio de Janeiro). The director of the Brazil program will be a resident from January through July of each year.

A study center director must be a tenured faculty member of the Academic Senate, a lecturer with security of employment or a professor emeritus.

Qualifications include an extensive knowledge of the host country, including its academic values and the structures of its universities and faculties, and fluency in the language. Applications for these positions are due by Feb. 19.

Application packets are available at campus EAP offices and through the Universitywide office of EAP. Interested faculty should contact Kathleen Ranney at the Universitywide office of EAP, UCSB, by calling 805/893-3677/2748 or emailing to (kranney@uoeap.ucsb.edu).

## Mammography van temporarily out of service

The UCSF mammography van will be out of service for six months this year while the vehicle and equipment are renovated. For more information about breast cancer screenings, call 353-3825.

## UCOP proposes academic personnel plans

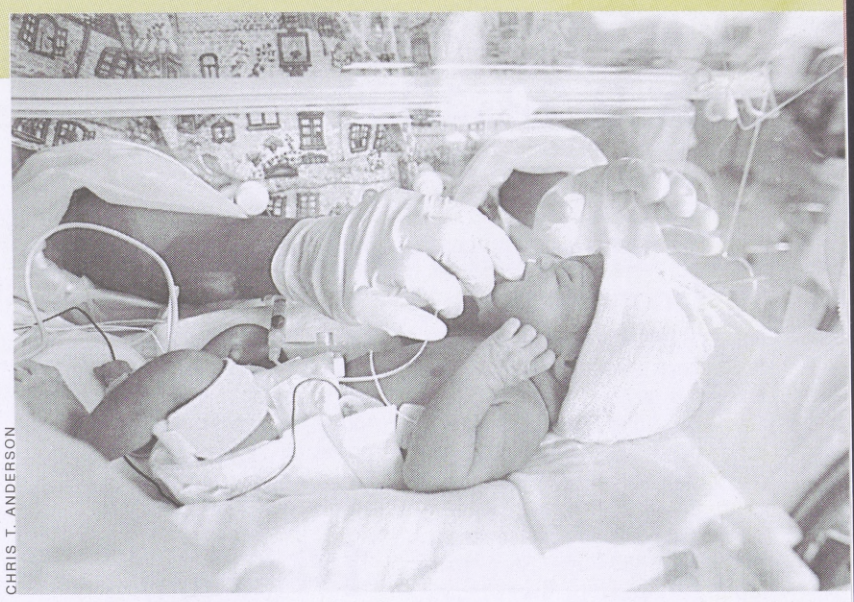
The University proposes a new (1) Health Sciences Compensation Plan and (2) UC Office of the President Guidelines on Occasional Outside Professional Services by Health Sciences Compensation Plan Participants. The proposed Health Sciences Compensation Plan would combine, update and replace the existing Medical School Clinical Compensation Plan (MSCCP) and General Health Sciences Compensation Plan (GHSCP). The proposed plan is closely patterned after the existing MSCCP. Changes in MSCCP language and format have been made to update miscellaneous administrative or technical requirements and for general clarity.

The proposed policy can be found online at www.ucop.edu/acadadv/acadpers/apm/review.html. If you do not have access to this website, please call Stella Kiyota at 476-4574 to request a copy. If you wish to comment on the proposed policy, please send comments to Diane Dillon at Box 0400 or via email at dillond@itsa.ucsf.edu by March 22.

## Support groups seek members

An ongoing bulimia therapy group at UCSF is seeking new members. The group leaders are physicians Tamar Seiver and Joris Wiggers of the department of psychiatry. For more information, contact Elaine Lonergan at 476-7442.

The department of child and adolescent psychiatry also offers group therapy for male and female high school students. The group, which meets Thursday evenings from 5 to 6:30 p.m., focuses on social skills, peer relations and building self-esteem. For more information, call Christa Santangelo at 476-7227.



CHRIS T. ANDERSON

Named after his father, Rupert Gabriel Dusauzay, the largest of quadruplets born on December 10, was released 20 days later from the medical center at UCSF.

(BABIES FROM PAGE 1)

"The fact that these babies are in good health on their first day of life is due to the persistence and patience of their mother with the support of their father," said Patricia Robertson, the obstetrician who worked with the family to maintain the pregnancy. Robertson is associate professor of obstetrics and gynecology at UCSF and a specialist in high-risk pregnancy at UCSF Stanford Health Care.

The success of this potentially high-risk delivery also is a tribute to the teamwork of the doctors, nurses and staff of the UCSF Birthing Center, who worked closely with the Neonatal Intensive Care Nursery, which is located on the same floor of Moffitt-Long Hospital at UCSF.

Rupert thanked the doctors and staff of UCSF Stanford Health Care for their support and compassion for his wife and babies. Asked on the day his babies were born how he would manage to care for four infants at home, Rupert said, "I would be lying to you if I said I knew how. I have no idea."

The quadruplets' births is highly unusual, even at a time when multiple births are becoming more common as the result of in vitro fertilization, said Robertson.

Only about one percent of in vitro fertilization pregnancies result in four or more children, she said. And quadruplets achieved naturally are even less common. "This is a very rare event," she said.

Of the in vitro fertilization procedures conducted at UCSF, 22 to 25 percent result in twins and about 1.3 percent result in three or more children.

The number of embryos used during in vitro fertilization depends on a range of factors, including the mother's age and hormone levels as well as the quality of the embryos. As general guidelines, however, the UCSF in vitro fertilization program uses two embryos during the procedure when the mother is 35 or younger, three for mothers 35 to 39 and four for mothers 40 and older.

The Dusauzays' births are atypical because Charlotte maintained the pregnancy for 32 weeks – which is long enough to reduce significant health risks – and all four of the children were in good condition, Robertson said. The benefits of maintaining the pregnancy that long are clear, as evident by the health of the Dusauzay babies, she said. The average gestational period for quadruplets is 29 weeks, she said.

The Dusauzay quadruplets were delivered by a team led by Sarah Kilpatrick, associate professor of obstetrics at UCSF and chief of the obstetrics and gynecology service at UCSF Stanford Health Care in San Francisco. Ob/gyn resident Natasha Kahl assisted in the delivery and in maintaining the pregnancy. Neonatologist Ronald Clyman, professor of pediatrics at UCSF, is in charge of the care of the babies.

CHRIS T. ANDERSON

The UCSF team of physicians, from left, Ronald Clyman, Sarah Kilpatrick, Natasha Kahl and Patricia Robertson, congratulate parents Rupert and Charlotte Dusauzay the day after the quadruplets were born.

# calendar

## Jan. 9-22, 1999

### 11 monday

**HEALTH POLICY SEMINAR:** Marie N. Fongwa presents "International Perspectives on Health Care: Cameroon" and Teresa Scherzer, predoctoral fellow, presents "Directions for a Disser-tation: Labor Conflict in a Changing Health Care Landscape," noon-1:30 p.m., 1388 Sutter St., Seminar room. Sponsored by the Institute for Health Policy Studies and the Institute for Health & Aging. Call 476-4921.

**DEAN'S RESEARCH SEMINAR:** Robert W. Mahley, professor, pathology and medicine, director, Gladstone Institute of Cardio-vascular Disease and senior member, CVRI and Lennart Mucke, associate professor, neurology and director, Gladstone Institute of Neurological Disease, present "Apolipoprotein E: From Atherosclerosis to Alzheimer's Disease," 3:30 p.m., N 225, Parnassus. Video relay to SFGHMC Medical Library, UCSF/Mount Zion Cancer Research Bldg., 2340 Sutter, Rm. S 173, and VA Medical Center, Bldg. 203, Rm. 1A32. Sponsored by the School of Medicine.

**ICE SKATING PARTY:** Millberry Programs & Services presents the "Annual Ice Skating Party," 6-8 p.m. for families and 8:30-10:30 p.m. for students, Kristi Yamaguchi Holiday Ice Rink, Embarcadero Center. Open to all UCSF and UCSF Stanford Health Care students, staff and their families. Cost is $5 per skater and free for students. Student tickets available at MU 108; staff tickets available by mail only from Empact! Presents at 476-2675.

**QI GONG CLASS:** See story on page 3 for details.

### 13 wednesday

**BLOOD DRIVE:** Donate blood, 10 a.m.-3:30 p.m., MCB, Rm. 126. Tasty refreshments and great raffle prizes. Call 476-6989.

**BROWN BAG LECTURE:** Tony M. Chou, director, adult cardiac catheterization laboratories and interventional cardiology, UCSF Stanford Health Care and assistant professor of medicine, presents "Balloons, Stents, Pumps and Growth Factors," 12:15 p.m., HSW 300, Parnassus. Hear about conventional and novel therapies for angina. Sponsored by Public Service Programs. Call 476-4394.

**DEAN'S PRIZE:** The School of Medicine Dean's Prize for medical student research will be awarded at noon, MU Conference Room, Parnassus.

**GALA BENEFIT:** Andrea Bocelli, Grammy award-winning opera singer and popular musician, performs at the "Second Annual Raising Hope Gala," Davies Symphony Hall. This benefit is hosted by the UCSF Foundation to benefit the UCSF Cancer Center. Bocelli will be accompanied by Ana Maria Martinez, soprano; Steven Mercurio, conductor; and the San Diego Symphony Orchestra. The performance will be preceded by a formal black-tie dinner and followed by a post-performance dessert reception. Ticket prices range from $500 to $2500. Discounts are available for UCSF employees. Call 502-4337.

### 14 thursday

**REGENTS MEET AT LAUREL HEIGHTS**

**WINTER ENRICHMENT SERIES:** Robert Merges, Berkeley Center for Law & Technology, presents "Law and Technology," noon, HSW 301, Parnassus. Learn what happens when intellectual property law and policies collide with business, science and technology. Merges has taught at Harvard Law School, Boston University School of Law, and is on the faculty at UCB's School of Law (Boalt Hall). Co-sponsored by the UCSF Career Center.

**CHANCELLOR'S CONCERT:** Pianist Stephen Bailey will perform Scarlatti's Sonatas in B Minor and D Major, Mozart's Variations on a Theme by Gluck, Debussy's Preludes (selections from Book I), and Liszt-Wagner's Liebestod from Tristan and Isolde, 12:15-12:45 p.m., Cole Hall, Parnassus. Free.

### 15 friday

**REGENTS MEET AT LAUREL HEIGHTS**

**MLK CELEBRATION: SFGHMC**

### 18 monday

**MARTIN LUTHER KING JR. DAY**

**UCSF HOLIDAY**

### 19 tuesday

**MLK COMMEMORATION WEEK:** See page 1 for story.

**VIDEO COLLAGE:** In honor of MLK commemoration week, a video collage will be on display titled "One Man's Vision and Our Struggle for Humanity" at the following campus locations: MedSci lobby, School of Dentistry Building lobby, Millberry Union, Mission Center, UCSF/Mount Zion cafeteria, and UCSF Stanford Health Care at Candlestick Point.

**BROWN BAG LECTURE:** Louann Brizendine, associate professor, psychiatry and director, hormone assessment clinic, presents "Hormones and Female Sexual Function," noon, UCSF/Mount Zion, Herbst Hall. Learn how estrogen, progesterone, testosterone and other hormones can have a profound influence and affect mood and libido. Sponsored by Public Service Programs. Call 476-4394.

**MLK AWARDS CEREMONY:** UCSF honors this year's winners of the Dr. Martin Luther King Jr. Award, 2-4 p.m., Cole Hall, Parnassus. See page 1 for story.

### 20 wednesday

**BROWN BAG LECTURE:** J. Alfred Smith Sr., pastor, Allen Temple Baptist Church presents "The Unfinished Work of Dr. Martin Luther King Jr." 12:15 p.m., Cole Hall, Parnassus. Smith will discuss the University's commitment to educating health care providers who are needed in underserved communities. UCSF Gospel Choir will perform before and after the talk. The keynote address will be telecast to Mission Center, SFGHMC, UCSF/Mount Zion, VA Medical Center and Laurel Heights. Sponsored by Public Service Programs and co-sponsored by the UCSF Dr. Martin Luther King Jr. Commemoration Committee. Call 476-4394.

**RESEARCH PAPER WORKSHOP:** See upcoming events.

### 21 thursday

**MLK NOON LECTURE:** Marie Fongwa, postdoctoral fellow, School of Medicine, presents "Culturally Competent Care," noon, HSW 301, Parnassus. Cultural competency is critical to every profession, especially health care. Fongwa offers universal guidance to help current and future health care providers sensitively meet the needs of their diverse patients as part of the Student Enrichment Series. Program is co-sponsored by the Coalition to Promote Diversity and the Student Activity Center.

**BROWN BAG LECTURE:** Dian Tollinger, manager, campus programs and Lisa Blutman, training coordinator, environmental health and safety, present "Your Workstation: Friend or Foe?" noon, MCB, 6th Flr. Board Room. Learn the factors that lead to repetitive stress injuries and the tools to prevent them. Sponsored by Public Service Programs. Call 476-4394.

**CHANCELLOR'S CONCERT:** Suzanne Leon, violin and Tanya Tompkins, cello, perform "Ravel's Sonata for Violin and Cello," 12:15-12:45 p.m., Cole Hall, Parnassus. Free. This week's performance is dedicated in honor of MLK Commemoration Week.

**COLE HALL CINEMA:** "Beloved," 5:45 and 9 p.m., Cole Hall, Parnassus. Oprah Winfrey stars as a former slave trying to escape the painful memories of her past. Based on the Pulitzer-Prize-winning novel by Toni Morrison. Cost: $2.50 to $3.50.

### 22 friday

**MLK CELEBRATIONS:** Various UCSF sites host activities in honor of the slain civil rights leader. Mission Center: 11:30 a.m.-1 p.m., Lobby and Rm. 126; UCSF Stanford Health Care, UCSF/Mount Zion: 11:30 a.m.-1 p.m., Herbst Hall.

**ABOG POST-HOLIDAY PARTY:** 3-5:30 p.m., Faculty/Alumi House, 745 Parnassus.

**COLE HALL CINEMA:** See Jan. 21 listing. Showtimes are 6:30 and 9:45 p.m.

CHRIS T. ANDERSON

Millberry Programs & Services offers Qi Gong classes taught by acupuncturist Angela Lee every Monday evening, from 8:15 to 9:30 p.m., through March 29. An ancient form of Chinese meditation, Qi Gong helps to unblock tension and promote well-being. See story on page 3 for details.

# upcoming events

## Research paper workshop

The Office of the Academic Vice Chancellor will present a workshop titled "Writing a Successful Research Paper," on Wednesday, Jan. 20, from 3 to 5 p.m., HSW 301. The workshop will feature a panel of outstanding campus researchers, writers, and editors who will share their expertise on matters such as planning/designing the study, preparing for the paper, structure of the paper, the editorial process, and peer review. Although the program is intended primarily for junior faculty, other faculty, postdoctoral fellows and advanced graduate students are also invited to attend.

Please RSVP to 476-1181 by Friday, Jan. 15 to attend.

## Workshop to prepare for surgery

The UCSF Cancer Center offers a workshop to provide people facing surgery an opportunity to learn to feel calmer before surgery and to feel less pain, recover faster and strengthen their immune system after surgery.

Cathy Holt, a certified instructor in Peggy Huddleston's "Prepare for Surgery" program, will lead the workshop which teaches mind-body techniques. She is also certified in biofeedback and has 12 years experience in the holistic health field, assisting people with guided imagery, stress reduction, self-healing and self-regulation.

The workshop will be held on Monday, Jan. 25, from 5 to 7 p.m. at the Ida and Joseph Friend Cancer Resource Center, UCSF Cancer Center, 2356 Sutter Street, First Floor. Please RSVP by calling 885-3693.

Light snacks and refreshments will be served. The workshop is free. A copy of the book and tape by Peggy Huddleston will be available at a cost of $25.

## Pediatrics seminar

The division of behavioral and development pediatrics, in conjunction with the child and adolescent psychiatric service, School of Medicine, presents the 6th Annual Update in Behavioral/Developmental Pediatrics, on Saturday, Feb. 6, from 8 a.m. to 5 p.m., Parnassus. This program is designed to provide an update of clinical approaches for particularly challenging childhood disorders and for common dilemmas of assessment and management. Cost is $135 for physicians and those with doctorate degrees; $50 for physicians in training with a letter of verification from training program; $100 for nurses, therapists and educators. The fee includes tuition, syllabus, and refreshments. To register, call 476-5808.

## Spanish for health care workers

Oscar Alvarez, University of Guadalajara, presents a five-week class "Spanish for Health Care Providers" beginning Wednesday, Feb. 10, from 4:30 to 6:30 p.m., M 1115, Parnassus. Fee is $60. Class dates are Feb. 10, 17, 24, March 3 and 10. For more information, call Nursing Education at 476-2993.

## Infectious diseases conference

The department of epidemiology and biostatistics presents the 6th annual "Epidemiology and Prevention of Infectious Diseases: Emerging Infectious Disease," Feb. 11-13, Crowne Plaza, Union Square. This program gives an overview of the scope and methods employed in infectious disease epidemiology and research, the unique aspects of hospital epidemiology and infection control, the problem of antimicrobial drug resistance, and the epidemiology and prevention of significant diseases. The program is designed for all practitioners in the disciplines of epidemiology, public health, health administration, medicine, nursing, and related professions. The UCSF Office of Continuing Medical Education sponsors the conference. For more information and to enroll, call 476-5808.